

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number  
**WO 2005/086394 A1**

(51) International Patent Classification<sup>7</sup>: **H04H 1/00**,  
H04B 1/38, 1/50

(74) Agent: **VANDER VEER, J., L.**; Philips Intellectual Prop-  
erty & Standards, P.O. Box 220, NL-5600 AE Eindhoven  
(NL).

(21) International Application Number:  
PCT/IB2005/050628

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(22) International Filing Date: 21 February 2005 (21.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
04100720.4 24 February 2004 (24.02.2004) EP

(71) Applicant (for all designated States except US): **KONIN-  
KLJKE PHILIPS ELECTRONICS N.V.** [NL/NL];  
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

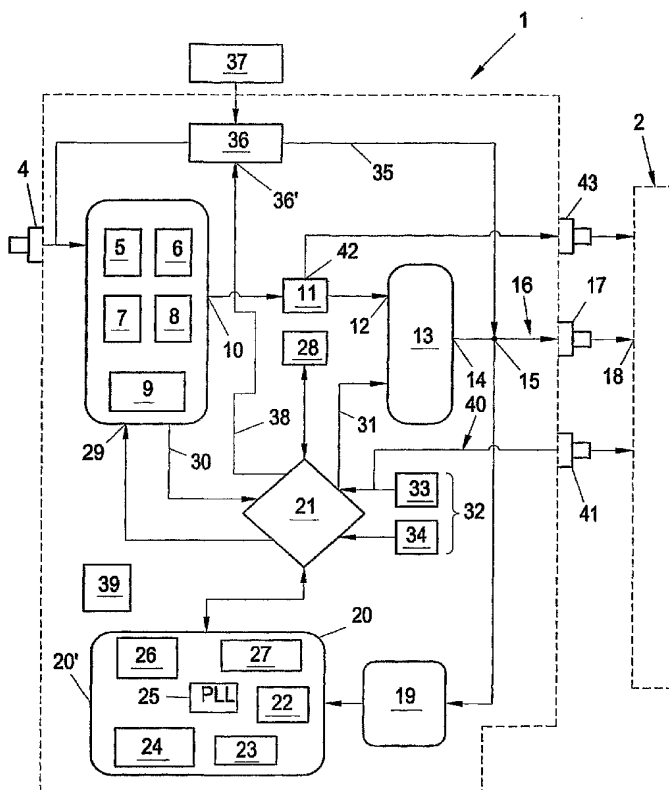
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ULLMANN, Paul**  
[AT/AT]; Triester Strasse 64, A-1101 Vienna (AT).

[Continued on next page]

(54) Title: APPLIANCE FOR CONVERTING DIGITAL AUDIO BROADCAST (DAB) SIGNALS



(57) Abstract: The invention relates to an appliance (1) for converting DAB signals into FM signals and for transmitting the FM signals to an FM receiver (2), with a DAB receiver (3), which is equipped with an antenna input (4) and, at an output (10), emits an audio signal derived from a received DAB signal, and with an FM modulator unit (13) for generating an FM signal modulated with the audio signal, and a transmission unit for transmitting the FM signal to the FM receiver (2), and with a control stage (21), wherein the transmission unit is equipped with wired connection means (16), to which wired connection means (16) frequency detection means (20) are connected, which are connected to the control means (21) and arranged to detect the high frequency set in the FM receiver (2), and to generate a result signal representing the detection result and deliver it to the control stage (21) for channel setting purposes, and wherein the control stage (21) is connected to a channel-setting input (29) of the DAB receiver (3) in order to tune the DAB receiver (3) on the basis of the result signal.

WO 2005/086394 A1



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*